

Things to Remember While on Creek Field Trip



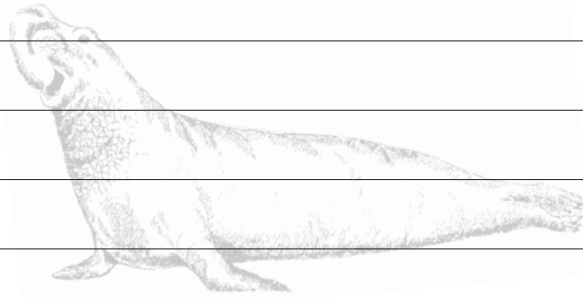
Field Journal Sheet

THREE SAFETY PRECAUTIONS:

1. _____

2. _____

3. _____



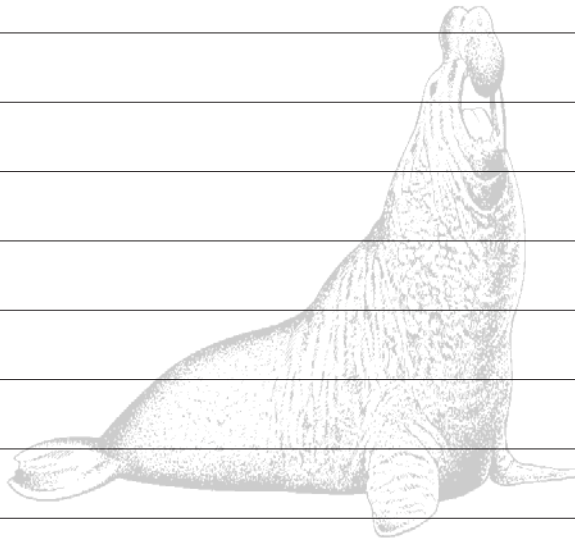
FOUR RESOURCE PROTECTION BEHAVIORS:

1. _____

2. _____

3. _____

4. _____

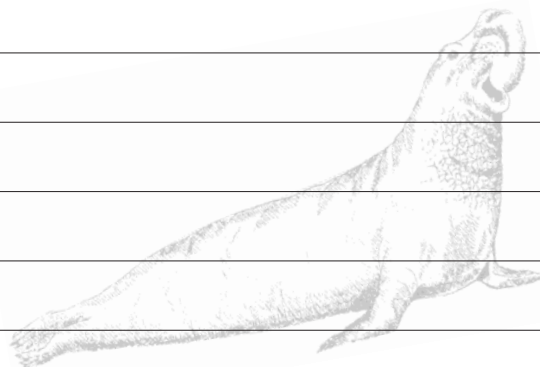


THREE THINGS TO KEEP IN MIND WHEN VISITING ANY PART OF THE NATIONAL PARK SYSTEM:

1. _____

2. _____









3. _____





Field Journal Sheet

Field Identification of Elephant Seals

<p>Bull</p> 	<ul style="list-style-type: none"> – heavy pink scarring – chest shield rises above eyes – big heavy nose with notch across top
<p>Sub-adult₄</p> 	<ul style="list-style-type: none"> – less scar tissue on chest – chest shield does not rise above eyes – less of a notch
<p>Sub-adult₃</p> 	<ul style="list-style-type: none"> – light scarring – while lying on sand, nose will touch ground – wrinkles on chest
<p>Sub-adult₂</p> 	<ul style="list-style-type: none"> – while lying on sand, nose will not touch ground – no chest shield – definite male nose
<p>Cow</p> 	<ul style="list-style-type: none"> – often seen with pup – can see nipples when lying on back – no big nose
<p>Yearling</p> 	<ul style="list-style-type: none"> – harbor seal size – blonder, lighter fur – smaller than other adults
<p>Weaner</p> 	<ul style="list-style-type: none"> – not associated with a female – silver coat, patchy black fur on some
<p>Pup</p> 	<ul style="list-style-type: none"> – black fur – close to a female – wrinkly when first born – nursing

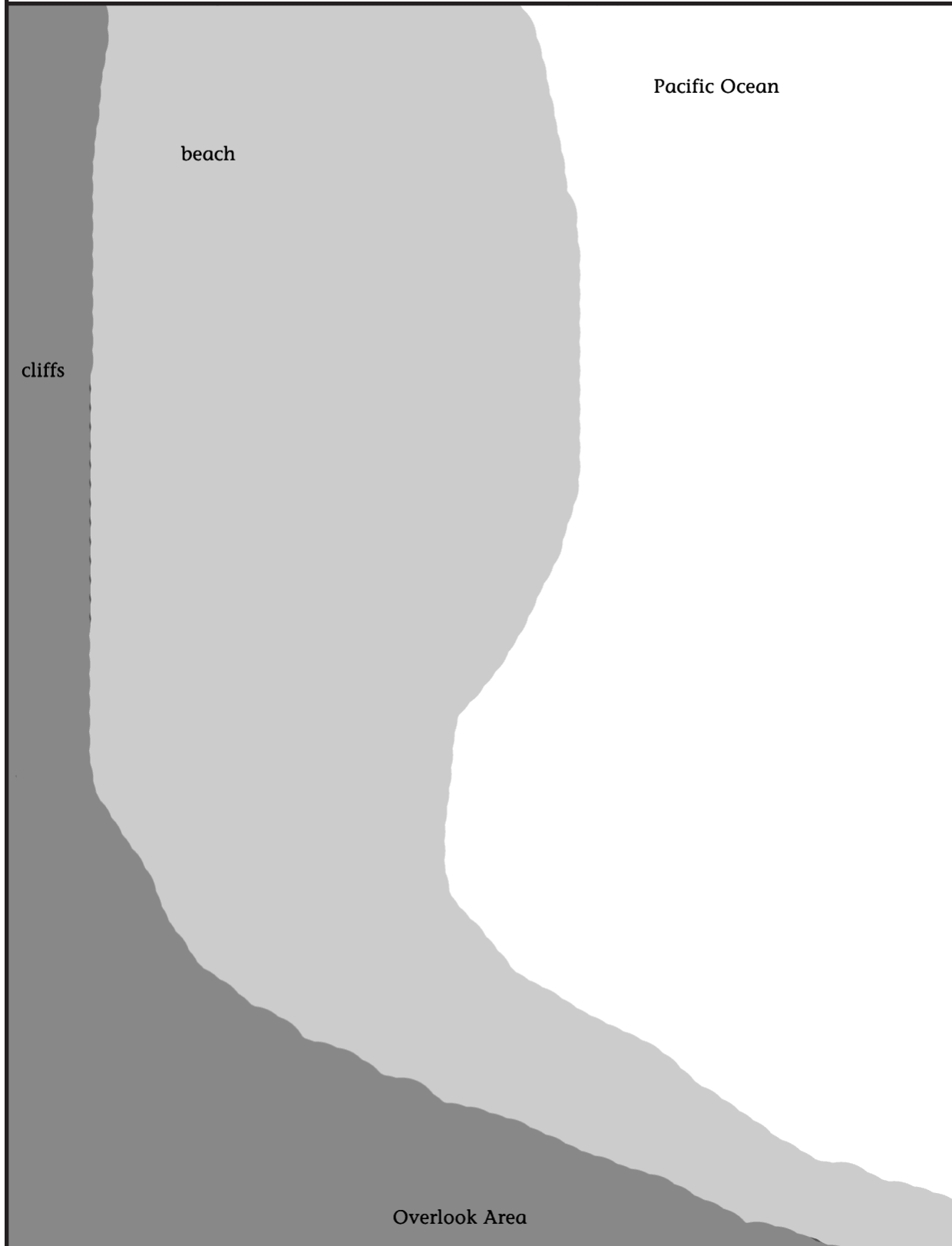


Elephant Seal Overlook Observation Sheet



Field Journal Sheet

Place an "X" on the map below for every elephant seal you see. Try your best to show their locations on the beach or in the water. Place an "O" if you see an alpha male, an "X" if you see a pup.

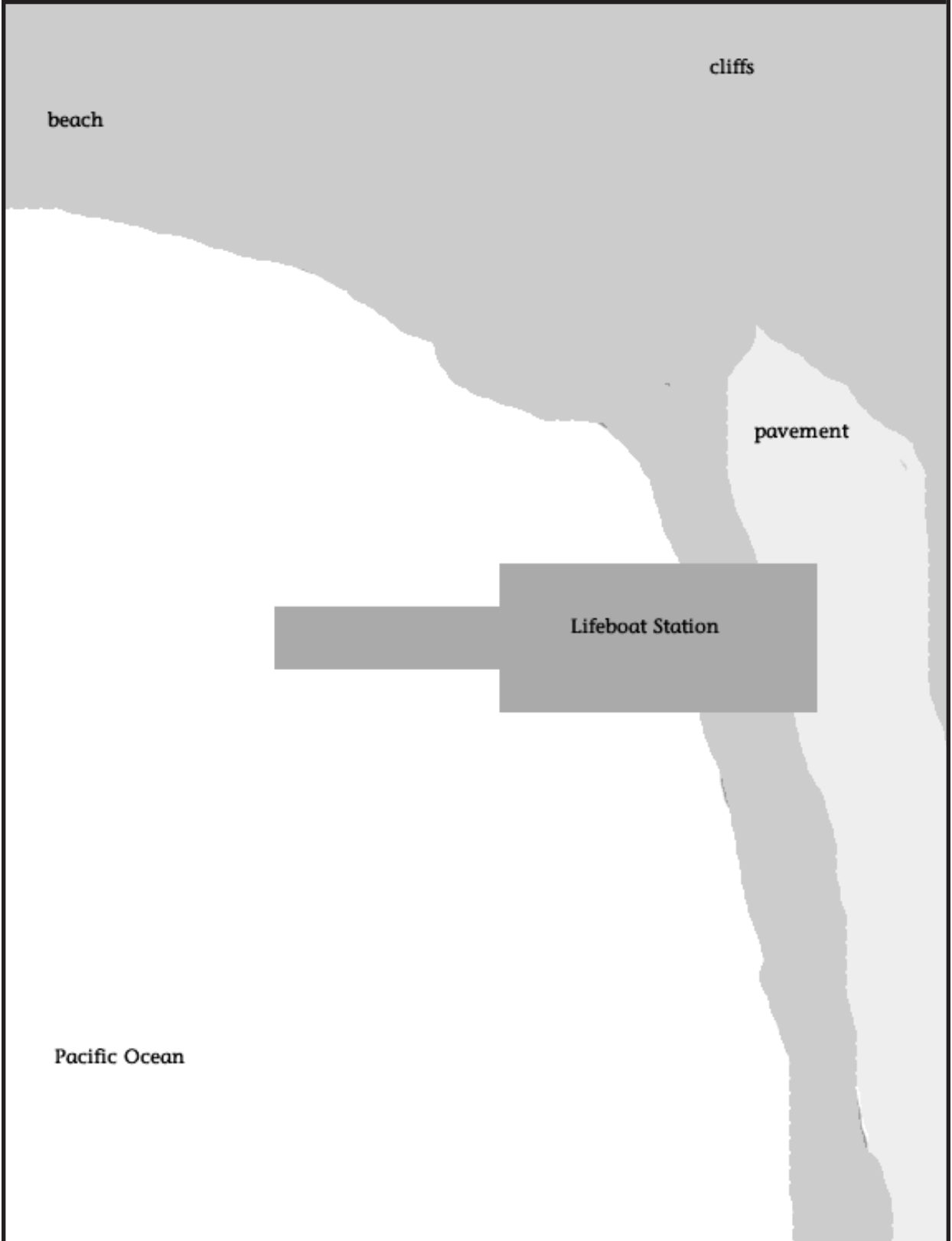




Field Journal Sheet

Lifeboat Station Observation Sheet

Place an "X" on the map below for every elephant seal you see. Try your best to show their locations on the beach or in the water. Place an "O" if you see an alpha male, an "X" if you see a pup.





Field Journal Sheet

Field Census			
Location:		Elephant Seal Overlook	Lifeboat Station
OVER ONE YEAR OLD	male	alpha	
		bull	
		Sub-adult 4	
		Sub-adult 3	
		Sub-adult 2	
	female	cow with pup	
		cow without pup	
	UNDER ONE YEAR OLD	yearling	
weaner			
pup			
VISITORS:	Describe visitor activities below:		



Field Journal Sheet

Behavior Survey

Location: Elephant Seal Overlook Lifeboat Station

	male	female	pup	comments
approach				
avoid				
bite				
chase				
fight				
flip sand				
float in water				
follow				
give birth				
lie alert				
lift head				
mate				
move				
nurse				
open mouth				
scratch				
shove				
sleep or rest				
sniff				
swim in water				
vocalize				



Field Journal Sheet

Behavior Field Notes

Use the space below to record three separate behaviors you are observing in either elephant seal colony.

Location: Elephant Seal Overlook Lifeboat Station

Location: Elephant Seal Overlook Lifeboat Station

Location: Elephant Seal Overlook Lifeboat Station



Habitat Survey

Take a moment to observe everything surrounding the area where elephant seals are or could be located. Use what you see and know to answer the following questions.

Location: Elephant Seal Overlook Lifeboat Station

time	tide	weather	wind	clouds
	high/low		light medium strong	none some all

What would attract elephant seals to this particular location?

Identify five human impacts on this area:

1.
2.
3.
4.
5.

List three changes to this habitat that would make it more desirable for elephant seals:

1.
2.
3.

Carrying capacity is the maximum number of individuals of a population that a habitat can support. What limits the carrying capacity for elephant seals in this location?

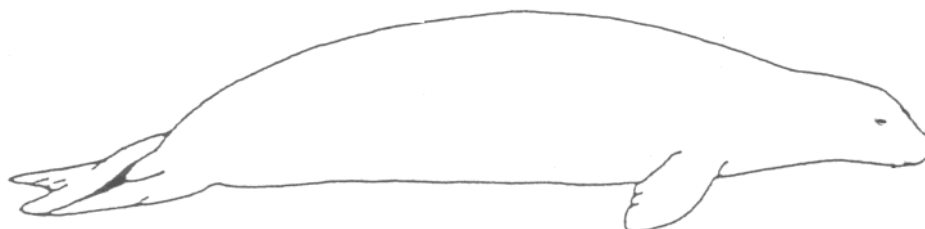
Female Scar Card



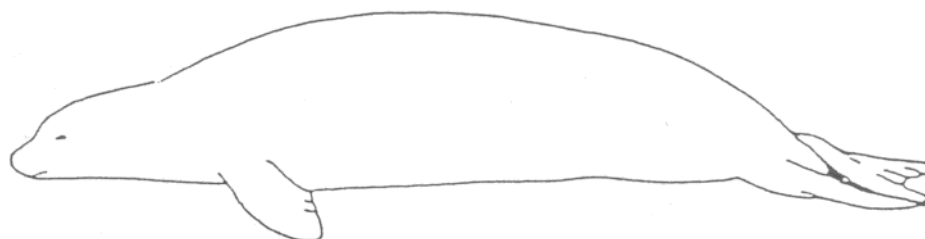
Field Journal Sheet

Use this scar card to note any characteristics of individual elephant seals that could be used to identify this elephant seal in the future. Mark scars, shark bites, or unusual coloration.

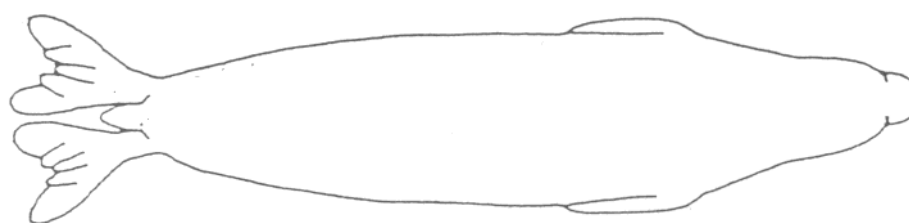
Right side view



Left side view



Top side view



Bottom view





Male Scar Card

Use this scar card to note any characteristics of individual elephant seals that could be used to identify this elephant seal in the future. Mark scars, shark bites, or unusual coloration.

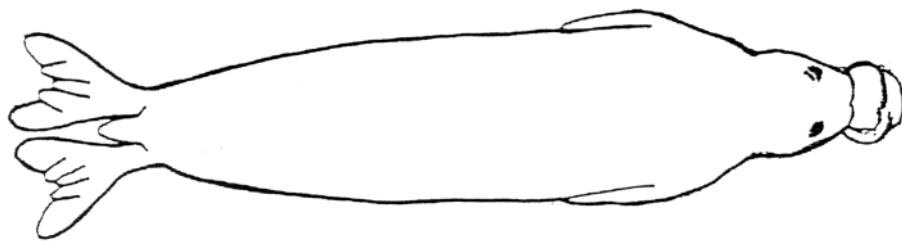
Right side view



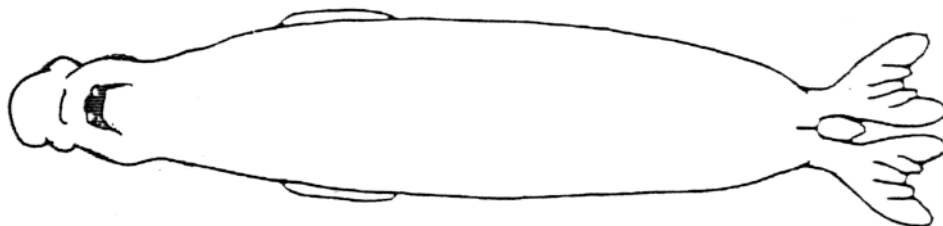
Left side view



Top side view



Bottom view





Field Journal Sheet

Tagging and Marking of Pinnipeds				
	what it looks like:	where to look:	observations:	
flipper tag	colored plastic tag	seal lions: front flippers seals: webbing between digits on hind flippers		
brand	similar to a brand used on cows	on mammals back or side		
dye mark	hair dyed number	anywhere on fur		
radio/satellite tag	small transmitter with battery, sometimes antenna sticks up	attached to flipper or glued to head or back		
time depth recorder	set in a white plaster-like base	glued to seal's back		
IF YOU CAN CLEARLY SEE A NUMBER....				
Number	tag color	type of pinniped	where is tag located? <i>right, left front or hind flipper</i>	condition of individual <i>live, sick, dead, injured</i>



Field Journal Sheet



Tag Colors and Locations		
TAG COLOR	SPECIES	LOCATION
white	California Sea Lion	San Clemente Island, CA Playa Atyla Island, MX Angel de la Guarda, MX
	Northern Elephant Seal	San Clemente Island, CA Cedros Island, MX San Benito Island, MX Sand Island, OR San Simeon/Gorda, CA Piedras Blancas, CA
	Harbor Seal	Santa Rosa Island, CA
yellow	California Sea Lion	San Miguel Island, CA
	Harbor Seal	San Miguel Island, CA Puget Sound, WA Gray's Harbor, WA (females only)
	Northern Elephant Seal	San Miguel Island, CA
orange	all species	Rehabilitation Centers-California and Northwest Marine Mammal Stranding Networks
pink	Northern Elephant Seal	Farallon Islands, CA Point Reyes, CA
red	California Sea Lion	San Nicolas Island, CA
	Northern Elephant Seal	
dark green	Northern Elephant Seal	Año Nuevo, CA
	Steller Sea Lion	
	California Sea Lion	
lime green	California Sea Lion	Morro Bay, CA
	Harbor Seal	Morro Bay, CA Point Reyes, CA
light blue	Northern Elephant Seal	Mexico
	California Sea Lion	Monterey Bay, CA
	Harbor Seal	
blue-green	California Sea Lion	Santa Barbara Island, CA
	Northern Elephant Seal	
	Harbor Seal	Puget Sound, WA Gray's Harbor, WA (males only)
purple	Northern Elephant Seal	Cape San Martin, CA
metal	Northern Fur Seal	Alaska
NUMBER BRAND	California Sea Lion	San Miguel Island, CA Seattle, WA
	Northern Elephant Seal	Año Nuevo, CA
HAIR DYE	California Sea Lion	San Miguel Island, CA Seattle, WA
	Northern Elephant Seal	San Miguel Island, CA San Nicolas Island, CA Año Nuevo, CA Farallon Islands, CA Point Reyes, CA
	Northern Fur Seal	San Miguel Island, CA

[illegible]

[illegible]